

ABSTRACT OF THE DISCLOSURE

CERAMIC JOINING

A method for the production of joints between ceramic bodies such as silicon carbide bodies in which a preceramic polymer mixed with a powder, such as bimodal silicon carbide, is applied in slurry form. The mechanical and hermetic properties may be enhanced by the inclusion of additional bodies constraining the polymer slurry in the joint region, such as a collar. The thermal processing of the joint is described which provides a useful joint.